

01263.001778

#10 D.J. 4-25-04  
IDS w/pepers  
PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Application of:

Jebu Jacob Rajan

Application No.: 09/866,596

Filed: May 30, 2001

For: SPEECH PROCESSING SYSTEM

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) Examiner: H. Vo

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) Group Art Unit: 2655

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:  
) March 30, 2004

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MAR 31 2004

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Technology Center 2600

FOURTH INFORMATION DISCLOSURE STATEMENT

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, Applicant directs the Examiner's attention to the documents listed on the enclosed Form PTO-1449. Copies of the listed documents are also enclosed.

Five United Kingdom Search Reports (dated January 29, 2002, February 1, 2002, February 6, 2002, July 31, 2002, and August 1, 2002) and two European Search Reports (dated November 27, 2003 and December 23, 2003) from related applications, which cite some of the listed documents, are enclosed for the Examiner's convenient reference.

JP 2001/044926 relates to measuring communication quality of a mobile communication system. An English language abstract (two versions) is enclosed as a concise statement of the relevance of this document.

Applicant would like to note that the article "Bayesian Approach to Parameter Estimation and Interpolation of Time-varying Autoregressive Processes Using the Gibbs Sampler," cited in the EP Search Reports, was previously cited in this application in the Information Disclosure Statement filed on January 22, 2002. A copy of the article was submitted with that Statement.

Applicant also notes that GB 2 361 339 A is equivalent to WO 00/45375.

#### FORMAL MATTERS

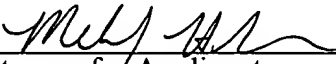
In accordance with 37 C.F.R. § 1.97(b), since a first Official Action on the merits of the subject application has not yet been issued, neither a statement under 37 C.F.R. § 1.97(e) nor payment of a fee is believed to be required. However, the Commissioner is hereby authorized to charge any fee which may be required in connection with this paper to Deposit Account No. 06-1205. A duplicate of this paper is enclosed.

#### CONCLUSION

It is respectfully requested that the above information be considered by the Examiner and that a copy of the enclosed Form PTO-1449 be initialed and returned, indicating that such information has been considered.

Applicant's undersigned attorney may be reached in Washington, D.C. by telephone at (202) 530-1010. All correspondence should continue to be directed to the address given below.

Respectfully submitted,

  
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Attorney for Applicant  
Melody H. Wu  
Registration No. 52,376

FITZPATRICK, CELLA, HARPER & SCINTO  
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160341 v 1

FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)  Date: March 30, 2004			ATTY DOCKET NO. <b>01263.001778</b>		APPLICATION NO. <b>09/866,596</b>	
APPLICANT <b>JEBU JACOB RAJAN</b>			FILING DATE <b>May 30, 2001</b>		GROUP <b>2655</b>	
U.S. PATENT DOCUMENTS						
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4,386,237	05/31/1983	Virupaksha et al.	179	15.55 R	
	4,905,286	02/27/1990	Sedgwick et al.	381	43	
	5,012,518	04/30/1991	Liu et al.	381	42	
	5,432,884	07/11/1995	Kapanen et al.	395	2.37	
	5,884,269	03/16/1999	Cellier et al.	704	501	
	6,134,518	10/17/2000	Cohen et al.	704	201	
	6,226,613 B1	05/01/2001	Turin	704	256	
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>RECEIVED</b>  <b>MAR 31 2004</b> </div>						
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
	GB 2 137 052 A	09/26/1984	Great Britain			In English
	WO 92/22891	12/23/1992	PCT			In English
	EP 0 554 083 A2	08/04/1993	Europe			In English
	EP 0 631 402 A2	12/28/1994	Europe			In English
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)						
	Srinivasan, et al., "Query Expansion for Imperfect Speech: Applications in Distributed Learning," Proc. IEEE Workshop on Content-Based Access of Image and Video Libraries, 2000, pp. 50-54					
	Couvreur, et al., "Wavelet-based Non-Parametric HMM's: Theory and Applications," Proc. International Conference Acoustics, Speech and Signal Processing, Istanbul, Vol. 1, June 5-9, 2000, pp. 604-607					
	Hopgood, et al., "Bayesian Single Channel Blind Deconvolution Using Parametric Signal and Channel Models," Proc. IEEE Workshop on Applications of Signal Processing to Audio and Acoustics, New Paltz, NY, October 17-20, 1999, pp. 151-154					
	Andrieu, et al., "Bayesian Blind Marginal Separation of Convolutively Mixed Discrete Sources," IEEE Proc., 1998, pp. 43-52					
EXAMINER			DATE CONSIDERED			

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. DEPARTMENT OF COMMERCE  
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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
	EP 0 674 306 A2 ✓	09/27/1995	Europe			In English
	WO 98/38631 ✓	09/03/1998	PCT			In English
	GB 2 332 054 A ✓	06/09/1999	Great Britain			In English
	GB 2 332 055 A ✓	06/09/1999	Great Britain			In English
	WO 99/28760 ✓	06/10/1999	PCT			In English
	WO 99/28761 ✓	06/10/1999	PCT			In English
	EP 0 952 589 A2 ✓	10/27/1999	Europe			In English
	WO 99/64887 ✓	12/16/1999	PCT			In English
	WO 00/11650 ✓	03/02/2000	PCT			In English
	EP 0 996 112 A2 ✓	04/26/2000	Europe			In English
	WO 00/38179 ✓	06/29/2000	PCT			In English
	GB 2 345 967 A ✓	07/26/2000	Great Britain			In English
	EP 1 022 583 A2 ✓	07/26/2000	Europe			In English

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)


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FORM PTO 1449 (modified)

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	WO 00/45375	08/03/2000	PCT			In English
	WO 00/54168	09/14/2000	PCT			In English
	GB 2 349 717 A	11/08/2000	Great Britain			In English
	JP 2001/044926	02/16/2001	Japan			Abstract
	GB 2 356 106 A	05/09/2001	Great Britain			In English
	GB 2 356 107 A	05/09/2001	Great Britain			In English
	GB 2 356 313 A	05/16/2001	Great Britain			In English
	GB 2 356 314 A	05/16/2001	Great Britain			In English
	GB 2 360 670 A	09/26/2001	Great Britain			In English
	GB 2 361 339 A	10/17/2001	Great Britain			In English
	EP 1 160 768 A2	12/05/2001	Europe			In English
	GB 2 363 557 A	12/19/2001	Great Britain			In English
	EP 1 034 441 B1	04/02/2003	Europe			In English

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)


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